

Fighting Canada's Battles In Northern Manitoba And Saskatchewan Bushlands

(By F. D. W. W. Secretary, Manitoba Chamber of Mines)
An interesting story of the great F. W. M.
(Continued from Last Week)

To understand the difficulties of processing the ore to recover the seven metals contained therein, one should first know the general composition of the F. W. M. The metals, in general, are not found in veins, but appear as small, rounded, intensely colored and finely divided grains, or nodules. The copper occurs as a combination of copper and sulphur, a sulphide known as chalcocite. The zinc also occurs as a sulphide with the same sulphate. Another mineral is the iron sulphide pyrite. The other metals in the ore are gold, silver, cadmium, selenium and tellurium are in smaller quantities as constituents, although some of the gold occurs in a pure state but is associated with fine particles in close combination with other minerals. The cadmium is most intimately associated with the zinc. The selenium and tellurium in combination with gold and silver associate mainly with the copper sulphide. 6,000 Tons Of Ore Rinsed Every Day

Although the zinc and metallurgical plants were originally designed to produce and treat 3,000 tons of ore per day, the tonnage

This is Brierley School at F. W. M. Very modern.

mined and treated has been raised to the present figure of 6,000 tons per day. In direct response to a request from the Canadian Government that maximum production be achieved in order to help the country's war effort, it may be pointed out, in passing, that this remarkable feat has been accomplished in spite of many difficulties and regardless of the fact that the Company's tax burden is tremendously increased. It can be maintained only if sufficient labor is available.

After the ore is loaded to the smelter it is ground to a fine powder. To get an idea of how fine the F. W. M. ore is ground, take a piece of worn steel one square inch in size, and with the finest needle you can procure pour 325 separate and distinct holes in it. The greater portion of the F. W. M. ore is ground fine enough to pass through these tiny holes. Water is added during grinding.

Freshly Broken Plant Minerals

The next step is selective flotation. In this process a froth like soap bubbles is created by adding acids to the water carrying the finely ground ore and mechanically agitating it while air is being blown in. By the use of different chemicals added to this mixture, the copper sulphide mineral particles will attach themselves to the bubbles to be floated off as a copper concentrate and by changing the chemicals added, the zinc sulphide particles can be floated off as a zinc concentrate. This ability to select by a change of chemicals the material to be floated is known as the phrase selective flotation. It not only segregates the minerals from one another for further treatment but eliminates a large part of the

LIFE'S LIKE THAT

By Fred Neher

THE CAMP CROCKIE ROUTE

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REG'LAR FELLERS—Phony Business

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and keep competent workers on the payroll. A law allowing premium ability may start as an apprentice and, as explained later, is paid from the date of commencement of his apprenticeship. Ahead of him lies the job for the future, the chance of becoming a shift boss, or attaining to even higher positions and receiving the respect and honor life in an annuity derived from equal contributions deposited by himself and the Company with the Amalgamated Branch of the Dominion Government, where interest rates on the accumulating fund are figured at 4%, compounded annually.

The Company instituted the annuity plan in 1930 as part of a "Welfare plan" to provide against the following contingencies: insecurity in old age, death, and loss of pay through non-occupational sickness and accidents. The first contingency is covered by the old age retirement annuity plan, which the Company contributes one half of the cost; the second by a group life insurance plan, the cost of which the Company pays; and the third by group sickness and accident insurance, which the Company and employees pay in equal amounts.

(To Be Continued)

SUNDAY SCHOOL LESSON
DECEMBER 5
THE SIN OF COVETOUSNESS
Golden text: Thou shalt not covet... anything that is thy neighbor's.
Leviticus 19:11, 12-13:17
Devotional Reading: Luke 18:1-27

Explanations and Comments

Exodus 20:17 There is sin in the mind of something which is not his own. The Tenth Commandment differs from the others in that it has to do with a man's relation to himself, his temptations, his desires, which may lead to sin. It legislates the control of thoughts and desires. Keep thy heart with all diligence, for out of it are the issues of life. Proverbs 4:23.

The Tenth Commandment forbids which in those early days a man could not do. It was a man's wife, man-servant, maid-servant, or anything that he was his neighbor's. It was for a man to covet, or the agent necessary to fulfill his desire. These are helpful rules in addition to the other commandments. They are not even the precepts. Do not covet thy neighbor's wife, house, or anything that is thy neighbor's. Do not covet thy neighbor's wife, house, or anything that is thy neighbor's.

There is no Warfare Frontloading

The prices paid for strategic metals used for war purposes, and for certain civilian uses during war, are fixed by the interested Governments. Consequently there can be no profiteering on the part of those who produce them. Compared to the last war when the price of copper went as high as 35 cents per pound, the present agreed upon price is less than one-third of that.

Healing The Sick

With Epidemic In Arabia

Recently, a medical party from British cruiser was sent to Arabia with an epidemic of small-pox. During the party's first day ashore, 1,000 people were vaccinated, and a temporary hospital was built. One of the surgeons reported that he had seen a diseased child in order to save the sight of the other eye. Soon afterwards a group of blind people appeared and asked to have their eyes restored in a similar way. The Arabians told them that Allah alone could cure the blind, and the Arabs accepted salvation.

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World Happenings Briefly Told

On direct orders from Prime Minister Churchill, Britain's stout fighting systems, put down from lack of the because of the blackout, are being switched to preparation for the first night of victory.

It is stated that 10,000 Norwegian have escaped to Britain since their country was occupied by the Germans. Seventy-five per cent of the Norwegian air force consists of escapees.

Heat was not turned on at Buckingham Palace until Nov. 1, ten days after the date set for the start of Great Britain.

Moscow has opened a new subway. Four-mile section of the Moscow river and linking the center of the city with the eastern industrial section.

In the 12 months to Aug. 31, nearly 8,000 men and 1,000 women were destroyed in Britain for being absent from or being persistently late for work without reasonable excuse.

During the past month, 12,000 churches and other ecclesiastical buildings in Britain have been destroyed or damaged.

Germany now has nearly 3,000 day and night fighter planes massed to attack the British.

The British Ministry of Supply has gone into the ragging business. It has collected and recycled tons more than 3,000,000 worn garments from the army, air force and navy.

Adorably Yours

Adorably Yours

Adorably Yours

Easy On The Coal

More Canadian women are running furnaces this year than ever. With husbands away on active service or working in munitions factories "the lady of the house" has to do the job if the family is to stay warm during the cold winter months. The young woman in the picture above is getting down to work by learning the proper way to shake the furnace. It should be done only when necessary to bring up the fire. Most important, it is to shake it gently so that the fire bed is not disturbed more than is absolutely necessary.

Sound Advice

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7:30	"	Album of Familiar Music.
8:00	"	CBC National News.
8:15	"	Handel Oratorios.
8:30	"	Music From the Pacific.
9:30	"	Vesper Hour.
10:00	"	CBC News.